

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Madera County FCWCA

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet
Spring 2018 Levee Inspection Results
Madera County FCWCA**

Waterway			Bank	Unit Miles
Unit No. 01 Ash Slough			Right	2.37
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2018 - 4/17/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start		Rating **	A	Issue No.	41
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0011_01_s _ 2012_41				
Comment Code					
Inspector Comment					
Madera County has a copy of the O&M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	43
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0011_01_s _ 2012_43				
Comment Code					
Inspector Comment					
Madera County has emergency supplies.					

No Photos

LM Start		Rating **	A	Issue No.	44
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0011_01_s _ 2012_44				
Comment Code					
Inspector Comment					
Madera County Flood Control has an ongoing training program.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	24
LM End	2.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.046428 °	37.068747 °
				-120.427913 °	-120.398547 °
DWR ID	DWR_NA0011_01_s _ 2018_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	27
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.046428 °	37.068747 °
				-120.427913 °	-120.398547 °
DWR ID	DWR_NA0011_01_s _ 2018_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	U	Issue No.	18
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.046566 °	37.046715 °
				-120.427512 °	-120.426964 °
DWR ID	DWR_NA0011_01_s _ 2014_18				
Comment Code					
DT : Ditch					
Inspector Comment					
There seem to be lots of activity going on at this location. This ditch will cause more damage to the levee slope and toe.					

Photo 1 of 1 : SP_2018_NA0011_142_18_20180411_00009.jpg



Ash Slough looking upstream from the landside slope levee mile 0.03.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	U	Issue No.	45
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.046618 °	37.046618 °
				-120.427350 °	-120.427350 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49976 DS_ID:21513 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2016 No inspection completed--need to inspect October 2016. (DWR UCIP - omagana)5/06/2014 Landward slope has been excavated and a berm built in front of landward headwall. Sediment visible inside pipe from landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment and waterward headwall to conduct proper inspection of structure. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 7/14/2016					

Photo 1 of 3 : UCIP_SP_2018_49976_69674.jpg



View of WS--dense vegetation along WS slope.

LM Start	0.04	Rating **	U	Issue No.	45 (cont)
LM End	0.04	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_49976_69673.jpg



Flap gate located on WS blocked by dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	U	Issue No.	45 (cont)
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.046618 °	37.046618 °
				-120.427350 °	-120.427350 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49976 DS_ID:21513 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2016 No inspection completed--need to inspect October 2016. (DWR UCIP - omagana)5/06/2014 Landward slope has been excavated and a berm built in front of landward headwall. Sediment visible inside pipe from landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment and waterward headwall to conduct proper inspection of structure. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 7/14/2016					

Photo 3 of 3 : UCIP_SP_2018_49976_69675.jpg



View of LS--levee slope has been modified.

LM Start	0.04	Rating **	U	Issue No.	20
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.046624 °	37.046682 °
				-120.427317 °	-120.427108 °
DWR ID	DWR_NA0011_01_s_2014_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
This is not a new erosion site, it should be repaired before the condition get any worse.					

Photo 1 of 1 : SP_2018_NA0011_142_20_20180411_00010.jpg



There is damage to the landside levee slope next to the concrete inlet structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	36
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.046589 °	37.046589 °
				-120.427298 °	-120.427298 °
DWR ID	DWR_NA0011_01_s _ 2012_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the waterside slope.					

No Photos

LM Start	0.05	Rating **	A/W	Issue No.	12
LM End	0.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.046683 °	37.046683 °
				-120.427077 °	-120.427077 °
DWR ID	DWR_NA0011_01_s _ 2017_12				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the brush pile from the landside slope.					

Photo 1 of 1 : SP_2018_NA0011_142_12_20180411_00003.jpg



Unwanted brush pile on the landside levee toe.

LM Start	0.06	Rating **	M	Issue No.	19
LM End	2.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.046732 °	37.067958 °
				-120.426922 °	-120.398828 °
DWR ID	DWR_NA0011_01_s _ 2017_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.11	Rating **	M	Issue No.	17
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.046890 °	37.068730 °
				-120.426137 °	-120.398670 °
DWR ID	DWR_NA0011_01_f_2016_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There were several rodent holes observed in Unit 1 although no rodents were seen during the inspection.					

No Photos

LM Start	0.25	Rating **	U	Issue No.	9
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.047541 °	37.053723 °
				-120.423669 °	-120.417766 °
DWR ID	DWR_NA0011_01_f_2017_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_142_9_20180411_00001.jpg



Tall weeds should be removed from landside slope.

LM Start	0.28	Rating **	M	Issue No.	6
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.047812 °	37.047963 °
				-120.423155 °	-120.422898 °
DWR ID	DWR_NA0011_01_s_2012_6				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Noted on the last two inspections.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.33	Rating **	M	Issue No.	8
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.048223 °	37.048467 °
				-120.422642 °	-120.422315 °
DWR ID	DWR_NA0011_01_s _ 2012_8				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Noted on the last two inspections.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	22
LM End	0.87	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.048906 °	37.054495 °
				-120.421793 °	-120.417028 °
DWR ID	DWR_NA0011_01_s _ 2018_22				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Control veg on levee crown.					

Photo 1 of 1 : SP_2018_NA0011_142_22_20180420_00029.jpg



Looking west at veg on levee crown within the section. (Spring 2018)

LM Start	0.44	Rating **	M	Issue No.	11
LM End	0.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.049455 °	37.049455 °
				-120.421218 °	-120.421218 °
DWR ID	DWR_NA0011_01_s _ 2012_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree from the waterside slope.					

Photo 1 of 1 : SP_2018_NA0011_142_11_20180411_00002.jpg



Remove downed tree from waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.53	Rating **	M	Issue No.	10
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.050335 °	37.050335 °
				-120.419965 °	-120.419965 °
DWR ID	DWR_NA0011_01_s_2012_10				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the water side slope.					

No Photos

LM Start	0.59	Rating **	U	Issue No.	13
LM End	0.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.050920 °	37.050920 °
				-120.419210 °	-120.419210 °
DWR ID	DWR_NA0011_01_f_2017_13				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the large pruning piles on landside slope.					

Photo 1 of 2 : SP_2018_NA0011_142_13_20180420_00030.jpg



Looking west at pruning pile on landward slope. (Spring 2018)

LM Start	0.59	Rating **	U	Issue No.	13 (cont)
LM End	0.59	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_142_13_20180411_00004.jpg



Remove large pruning piles from landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.62	Rating **	M	Issue No.	37
LM End	0.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.051222 °	37.051222 °
				-120.418810 °	-120.418810 °
DWR ID	DWR_NA0011_01_f_2015_37				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree branches from the waterside slope.					

No Photos

LM Start	0.74	Rating **	U	Issue No.	14
LM End	0.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.052619 °	37.053238 °
				-120.417726 °	-120.417488 °
DWR ID	DWR_NA0011_01_s_2013_14				
Comment Code					
EQ : Equipment					
Inspector Comment					
Farm equipment and debris placed within the easement landside levee toe.					

Photo 1 of 1 : SP_2018_NA0011_142_14_20180411_00005.jpg



Move equipment and debris away from levee to allow inspection and access to landside slope, toe and 10-foot easement.

LM Start	0.75	Rating **	U	Issue No.	21
LM End	0.75	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.052796 °	37.052796 °
				-120.417641 °	-120.417640 °
DWR ID	DWR_NA0011_01_f_2017_21				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from waterside slope.					

Photo 1 of 1 : SP_2018_NA0011_142_21_20180420_00031.jpg



Looking west at tree limbs and branches on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.86	Rating **	A/W	Issue No.	26
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.054333 °	37.054460 °
				-120.417057 °	-120.417043 °
DWR ID	DWR_NA0011_01_f_2016_26				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Maintain the trees to allow visibility of the levee slope.					

No Photos

LM Start	0.89	Rating **	U	Issue No.	28
LM End	1.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.054797 °	37.056328 °
				-120.416897 °	-120.412685 °
DWR ID	DWR_NA0011_01_s_2017_28				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
This landscape has not been authorized.					

Photo 1 of 3 : SP_2018_NA0011_142_28_20180411_00011.jpg



Looking upstream from levee mile 0.89 to levee mile 1.15. Unauthorized landscaping on the landward toe.

LM Start	0.89	Rating **	U	Issue No.	28 (cont)
LM End	1.15	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2018_NA0011_142_28_20180411_00012.jpg



Unauthorized landscaping continues.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.89	Rating **	U	Issue No.	28 (cont)	
LM End	1.15	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.054797 °		37.056328 °
				-120.416897 °		-120.412685 °
DWR ID	DWR_NA0011_01_s_2017_28					
Comment Code						
LI : Landscape Irrigation						
Inspector Comment						
This landscape has not been authorized.						

Photo 3 of 3 : SP_2018_NA0011_142_28_20180411_00013.jpg



Unauthorized landscaping on the landward continues.

LM Start	1.16	Rating **	U	Issue No.	31
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.056385 °	37.057060 °
				-120.412688 °	-120.411380 °
DWR ID	DWR_NA0011_01_s_2017_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted weed growth from the landside slope and shoulder.					

Photo 1 of 1 : SP_2018_NA0011_142_31_20180411_00014.jpg



Unwanted tall weed growth on the landside shoulder and slope.

LM Start	1.25	Rating **	U	Issue No.	32
LM End	2.07	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.057060 °	37.065328 °
				-120.411380 °	-120.401128 °
DWR ID	DWR_NA0011_01_s_2017_32				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Unauthorized landscaping between levee mile 1.25-2.07.					

Photo 1 of 1 : SP_2018_NA0011_142_32_20180411_00015.jpg



Levee mile 1.25 to 2.07 unauthorized landscaping on the landward berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.45	Rating **	M	Issue No.	7
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.059113 °	37.068344 °
				-120.408880 °	-120.398780 °
DWR ID	DWR_NA0011_01_s_2013_7				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Farmer has plowed into the toe of the levee.					

No Photos

LM Start	1.67	Rating **	C	Issue No.	23
LM End	1.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.061083 °	37.061083 °
				-120.405936 °	-120.405936 °
DWR ID	DWR_NA0011_01_f_2017_23				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	U	Issue No.	46
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.061496 °	37.061496 °	
			-120.405348 °	-120.405348 °	
DWR ID					

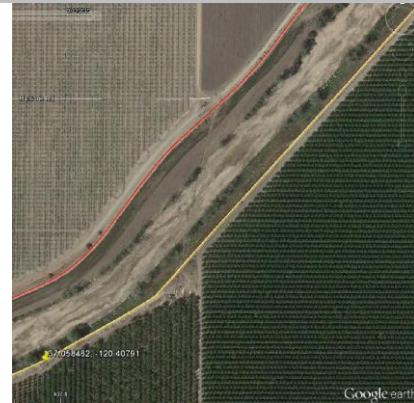
Comment Code

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Inspector Comment

FS_ID:50057
DS_ID:25456
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Open pipe still remains on WS through short levee. Need to contact owner to determine extent of work completed through section of levee. (DWR UCIP - omagana)6/14/2016 Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana) FIELD_STRUCT_DESC: "ILLEGAL ENCROACHMENT" 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. This crossing was field discovered. The owner of this crossing is Michael Alexander Sterling, 19140 Faralton Road, Madera, CA 93638-0313.
FS Date: 7/14/2016

Photo 1 of 3 : UCIP_SP_2018_50057_75206.jpg



Aerial photo of Encroachment visible through levee and channel in 2015.
(Source: Google Earth, 3/18/2015)

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	U	Issue No.	46 (cont)
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.061496 °	37.061496 °	
			-120.405348 °	-120.405348 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50057
DS_ID:25456
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Open pipe still remains on WS through short levee. Need to contact owner to determine extent of work completed through section of levee. (DWR UCIP - omagana)6/14/2016 Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana) FIELD_STRUCT_DESC: "ILLEGAL ENCROACHMENT" 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. This crossing was field discovered. The owner of this crossing is Michael Alexander Sterling, 19140 Farallon Road, Madera, CA 93638-0313.
FS Date: 7/14/2016

Photo 2 of 3 : UCIP_SP_2018_50057_75221.jpg



Assumed alignment of pipe through the levees and along LS toe of U2.
(Source: Google Earth, 3/18/2015)

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	U	Issue No.	46 (cont)
LM End	1.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.061496 °	37.061496 °
				-120.405348 °	-120.405348 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50057
DS_ID:25456
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Open pipe still remains on WS through short levee. Need to contact owner to determine extent of work completed through section of levee. (DWR UCIP - omagana)6/14/2016 Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana) FIELD_STRUCT_DESC: "ILLEGAL ENCROACHMENT" 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. This crossing was field discovered. The owner of this crossing is Michael Alexander Sterling, 19140 Farallon Road, Madera, CA 93638-0313.
FS Date: 7/14/2016

Photo 3 of 3 : UCIP_SP_2018_50057_75207.jpg



Aerial photo of Encroachment not present in 2014. (Source: Google Earth, 4/5/2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.09	Rating **	M	Issue No.	47
LM End	2.09	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.065569 °	37.065569 °
				-120.400752 °	-120.400752 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52612 DS_ID:21511 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact to owner to get contact information. FIELD_STRUCT_DESC: Telephone conduit of an unknown size or material through the levee, at an unknown depth. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 1 : UCIP_SP_2018_52612_71806.jpg



Conduit box located on waterward side.

LM Start	2.10	Rating **	M	Issue No.	48
LM End	2.10	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.065649 °	37.065649 °
				-120.400663 °	-120.400663 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39845 DS_ID:25042 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine if crossing goes through levee. FIELD_STRUCT_DESC: 10-inch or 12-inch drainage discharge pipe of an unknown material through the levee, at an unknown depth. Crossing visible inside a concrete standpipe on the waterside (WS). Potential pump station on the landside (LS), approximately 100 feet from the standpipe. This crossing was field discovered. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_39845_71800.jpg



Pump station visible approximately 100 feet from concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.10	Rating **	M	Issue No.	48 (cont)	
LM End	2.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.065649 °		37.065649 °
				-120.400663 °		-120.400663 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39845 DS_ID:25042 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine if crossing goes through levee. FIELD_STRUCT_DESC: 10-inch or 12-inch drainage discharge pipe of an unknown material through the levee, at an unknown depth. Crossing visible inside a concrete standpipe on the waterside (WS). Potential pump station on the landside (LS), approximately 100 feet from the standpipe. This crossing was field discovered. FS Date: 5/6/2014						

Photo 2 of 3 : UCIP_SP_2018_39845_71803.jpg



Standpipe visible on waterward side.

LM Start	2.10	Rating **	M	Issue No.	48 (cont)
LM End	2.10	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_39845_71804.jpg



Inside view of concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.37	Rating **	M	Issue No.	49
LM End	2.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.068763 °	37.068763 °
				-120.398523 °	-120.398523 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:38226 DS_ID:21512 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine details of crossing and whether crossing has been abandoned. Need to find owner and determine the alignment of crossing to confirm if pipe is being extended from opposite levee. FIELD_STRUCT_DESC: *ABANDONED* Service pole, pump, and two 36-inch standpipes on the landside (LS). Pump not found during 2014 inspection. Three standpipes found on the LS. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

LM Start	2.37	Rating **	M	Issue No.	49 (cont)
LM End	2.37	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_38226_69679.jpg



View of waterward side.

Photo 2 of 3 : UCIP_SP_2018_38226_69678.jpg



View of waterward slope--no signs of crossing visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Ash Slough	Right	2.37	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.37	Rating **	M	Issue No.	49 (cont)	
LM End	2.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.068763 °	37.068763 °	
				-120.398523 °	-120.398523 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38226 DS_ID:21512 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine details of crossing and whether crossing has been abandoned. Need to find owner and determine the alignment of crossing to confirm if pipe is being extended from opposite levee. FIELD_STRUCT_DESC: *ABANDONED* Service pole, pump, and two 36-inch standpipes on the landside (LS). Pump not found during 2014 inspection. Three standpipes found on the LS. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_38226_69677.jpg



Three stand pipes visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Madera County FCWCA

Waterway			Bank	Unit Miles
Unit No. 02 Ash Slough			Left	2.04
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2018 - 4/3/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	32
LM End	0.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045539 °	37.045505 °
				-120.427444 °	-120.427473 °
DWR ID	DWR_NA0011_02_f_2012_32				
Comment Code					
DT : Ditch					
Inspector Comment					
There is a settling basin on the landward side of the levee. This basin is very close to the landside easement.					

Photo 1 of 1 : SP_2018_NA0011_143_32_20180307_00015.jpg



Ash Slough at levee mile 0.01- 0.03. Settling basin on the landside levee berm.

LM Start	0.00	Rating **	U	Issue No.	39
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.045485 °	37.060091 °
				-120.427423 °	-120.405340 °
DWR ID	DWR_NA0011_02_f_2015_39				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
The levee section waterside is covered with rodent holes. There is no bait stations on this levee section and the weeds here are too tall to see the active rodents. No new photo was taken.					

Photo 1 of 2 : SP_2018_NA0011_143_39_20180307_00018.jpg



Active rodents spotted in the area waterside slope levee mile 0.00- 1.67.

LM Start	0.00	Rating **	U	Issue No.	39 (cont)
LM End	1.67	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_NA0011_143_39_20180307_00019.jpg



Other rodent holes noted in the slope waterside levee section.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	10
LM End	2.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.045513 °	37.064087 °
				-120.427355 °	-120.401194 °
DWR ID	DWR_NA0011_02_f_2017_10				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	M	Issue No.	47
LM End	0.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.045532 °	37.045532 °
				-120.427268 °	-120.427268 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39686 DS_ID:21585 EP_NO: 8068 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm if crossing found in the field corresponds to the crossing described under Permit 8068. Only 1 crossing found permit indicates 2 irrigation culverts. Need to contact owner to obtain additional details of crossing. FIELD_STRUCT_DESC: To retain two irrigation culverts and siphons of an unknown size or material through the levee, at an unknown depth. Located at the intersection of Ash Slough and the Chowchilla Canal. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_39686_71662.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	47 (cont)	
LM End	0.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.045532 °		37.045532 °
				-120.427268 °		-120.427268 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39686 DS_ID:21585 EP_NO: 8068 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm if crossing found in the field corresponds to the crossing described under Permit 8068. Only 1 crossing found permit indicates 2 irrigation culverts. Need to contact owner to obtain additional details of crossing. FIELD_STRUCT_DESC: To retain two irrigation culverts and siphons of an unknown size or material through the levee, at an unknown depth. Located at the intersection of Ash Slough and the Chowchilla Canal. FS Date: 5/6/2014						

LM Start	0.01	Rating **	M	Issue No.	47 (cont)
LM End	0.01	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39686_71661.jpg



View of riser located on waterward side.

Photo 3 of 3 : UCIP_SP_2018_39686_71660.jpg



Pipe outlet on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	9
LM End	0.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045608 °	37.045901 °
				-120.426999 °	-120.425835 °
DWR ID	DWR_NA0011_02_f_2017_9				
Comment Code					
FE : Fence					
Inspector Comment					
Barbed wire fence at toe should be removed.					

No Photos

LM Start	0.03	Rating **	M	Issue No.	19
LM End	1.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.045623 °	37.059952 °
				-120.426988 °	-120.405448 °
DWR ID	DWR_NA0011_02_s_2017_19				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.04	Rating **	M	Issue No.	22
LM End	2.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.045627 °	37.063718 °
				-120.426788 °	-120.401358 °
DWR ID	DWR_NA0011_02_s_2017_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair the ruts in the crownroadway between levee mile 0.04-2.00.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.09	Rating **	U	Issue No.	12
LM End	0.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.045876 °	37.046118 °
				-120.425932 °	-120.424996 °
DWR ID	DWR_NA0011_02_f_2017_12				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_143_12_20180307_00008.jpg



Move equipment away from levee slope, toe and 10-foot easement at toe to allow inspection and access.

LM Start	0.16	Rating **	U	Issue No.	23
LM End	0.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.046240 °	37.046583 °
				-120.424608 °	-120.423560 °
DWR ID	DWR_NA0011_02_s_2017_23				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim the tree limbs blocking view of landward levee slope.					

Photo 1 of 1 : SP_2018_NA0011_143_23_20180411_00038.jpg



Looking downstream at tree on landward slope. (Spring 2018)

LM Start	0.21	Rating **	M	Issue No.	46
LM End	0.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.046533 °	37.046533 °
				-120.423762 °	-120.423762 °
DWR ID	DWR_NA0011_02_f_2015_46				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Cut the tree limb hanging over the crown roadway.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.27	Rating **	M	Issue No.	21
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.046937 °	37.047192 °
				-120.422815 °	-120.422517 °
DWR ID	DWR_NA0011_02_s_2012_21				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.30	Rating **	M	Issue No.	5
LM End	0.30	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.047100 °	37.047100 °
				-120.422448 °	-120.422448 °
DWR ID	DWR_NA0011_02_f_2012_5				
Comment Code					
FE : Fence					
Inspector Comment					
This fence was not authorized by CVFPB. The District is aware of the fence. The landowner installed the fence and gate across the levee section because he has been broken into frequently and had many items stolen in the past. I met with the landowner 4-29-2014 and he let me put a State lock on his gate to gain access to the levee.					

Photo 1 of 2 : SP_2018_NA0011_143_5_20180307_00005.jpg



Unauthorized gate and metal fence placed on slope and toe of levee section. Photo taken 4-17-2013.

LM Start	0.30	Rating **	M	Issue No.	5 (cont)
LM End	0.30	Issue Type +	En	Location *	CR

Photo 2 of 2 : SP_2018_NA0011_143_5_20180307_00006.jpg



New photo 5-4-2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.31	Rating **	M	Issue No.	48
LM End	0.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.047245 °	37.047245 °
				-120.422403 °	-120.422403 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:35764 DS_ID:21514 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine details of crossing and permit information authorizing crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Gravity drainage pipe of an unknown size or material through the levee, at a skew and at an unknown depth. Concrete discharge structure at the waterside (WS) end. Standpipe with gage house off the landside (LS) toe. No gage house found on the LS during inspection. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

LM Start	0.31	Rating **	M	Issue No.	48 (cont)
LM End	0.31	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_35764_64463.jpg



View of waterward side.

Photo 2 of 3 : UCIP_SP_2018_35764_64466.jpg



Locked box (unknown purpose) located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.31	Rating **	M	Issue No.	48 (cont)	
LM End	0.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.047245 °		37.047245 °
				-120.422403 °		-120.422403 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35764 DS_ID:21514 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine details of crossing and permit information authorizing crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Gravity drainage pipe of an unknown size or material through the levee, at a skew and at an unknown depth. Concrete discharge structure at the waterside (WS) end. Standpipe with gage house off the landside (LS) toe. No gage house found on the LS during inspection. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_35764_64465.jpg



Dense vegetation on waterward slope.

LM Start	0.31	Rating **	M	Issue No.	13
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.047266 °	37.047266 °
				-120.422393 °	-120.422393 °
DWR ID	DWR_NA0011_02_f_2017_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_143_13_20180307_00009.jpg



Vehicle access to levee slope should be prevented and erosion repaired.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.32	Rating **	U	Issue No.	30
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.047387 °	37.054878 °
				-120.422183 °	-120.415525 °
DWR ID	DWR_NA0011_02_s_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Spray or mow the wild weeds on the landside levee slope.					

Photo 1 of 1 : SP_2018_NA0011_143_30_20180307_00014.jpg



Unwanted vegetation on the waterside levee slope.

LM Start	0.32	Rating **	M	Issue No.	28
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.047416 °	37.047416 °
				-120.422142 °	-120.422142 °
DWR ID	DWR_NA0011_02_f_2012_28				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree limbs from the waterside slope.					

Photo 1 of 1 : SP_2018_NA0011_143_28_20180411_00039.jpg



Looking downstream at tree limbs on waterward slope and toe. (Spring 2018)

LM Start	0.33	Rating **	U	Issue No.	33
LM End	0.42	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.047485 °	37.048403 °
				-120.422037 °	-120.420810 °
DWR ID	DWR_NA0011_02_s_2017_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead fallen trees from the water side slope.					

Photo 1 of 1 : SP_2018_NA0011_143_33_20180307_00016.jpg



Dead fallen trees on the waterside levee slope and shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.35	Rating **	M	Issue No.	14
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.047653 °	37.048304 °
				-120.421813 °	-120.420967 °
DWR ID	DWR_NA0011_02_f_2017_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Waterside tree branches hanging over crown interfere with crown access and waterside visibility.					

Photo 1 of 1 : SP_2018_NA0011_143_14_20180411_00040.jpg



Looking downstream at untrimmed tree on waterward shoulder and slope. (Spring 2018)

LM Start	0.45	Rating **	M	Issue No.	11
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.048627 °	37.049342 °
				-120.420357 °	-120.419370 °
DWR ID	DWR_NA0011_02_s_2012_11				
Comment Code					
FE : Fence					
Inspector Comment					
Wire fence on the landside levee shoulder along with unwanted tall weed growth..					

Photo 1 of 1 : SP_2018_NA0011_143_11_20180307_00007.jpg



Fence on the landside slope.

LM Start	0.52	Rating **	M	Issue No.	35
LM End	0.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.049289 °	37.049289 °
				-120.419542 °	-120.419542 °
DWR ID	DWR_NA0011_02_s_2013_35				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim tree off the slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.56	Rating **	M	Issue No.	15
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.049723 °	37.049723 °
				-120.419026 °	-120.419026 °
DWR ID	DWR_NA0011_02_f_2017_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Remove fallen trees and limbs from waterside slope.					

No Photos

LM Start	0.93	Rating **	M	Issue No.	34
LM End	0.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.054407 °	37.054407 °
				-120.415928 °	-120.415928 °
DWR ID	DWR_NA0011_02_s_2017_34				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the prunings from the water side slope.					

Photo 1 of 1 : SP_2018_NA0011_143_34_20180411_00041.jpg



Looking downstream at bush pile on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.94	Rating **	M	Issue No.	49	
LM End	0.94	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.054547 °	37.054547 °	
				-120.415826 °	-120.415826 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39923						
DS_ID:25043						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner to determine status. Need permit authorizing work.						
FIELD_STRUCT_DESC: 5-inch steel communications conduit along the downstream face of the bridge. The upstream face has a 2-inch pipe cut at the corner. This crossing was field discovered.						
FS Date: 5/6/2014						

Photo 1 of 3 : UCIP_SP_2018_39923_71823.jpg



Conduit along face of bridge.

LM Start	0.94	Rating **	M	Issue No.	49 (cont)
LM End	0.94	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39923_71822.jpg



View of steel conduit through levee and above channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.94	Rating **	M	Issue No.	49 (cont)	
LM End	0.94	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.054547 °	37.054547 °	
				-120.415826 °	-120.415826 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39923						
DS_ID:25043						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner to determine status. Need permit authorizing work.						
FIELD_STRUCT_DESC: 5-inch steel communications conduit along the downstream face of the bridge. The upstream face has a 2-inch pipe cut at the corner. This crossing was field discovered.						
FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_39923_71821.jpg



Overview of bridge.

LM Start	0.96	Rating **	M	Issue No.	16
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.054733 °	37.054733 °
				-120.415732 °	-120.415732 °
DWR ID	DWR_NA0011_02_f_2017_16				
Comment Code					
GA : Garbage					
Inspector Comment					
Remove furniture and other debris from waterside slope.					

Photo 1 of 1 : SP_2018_NA0011_143_16_20180411_00042.jpg



Looking downstream at garage on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.98	Rating **	U	Issue No.	27
LM End	1.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.054928 °	37.058752 °
				-120.415482 °	-120.407323 °
DWR ID	DWR_NA0011_02_s_2017_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead trees from the waterside slope and shoulder.					

LM Start	0.98	Rating **	U	Issue No.	27 (cont)
LM End	1.52	Issue Type +	En	Location *	WS

Photo 1 of 2 : SP_2018_NA0011_143_27_20180307_00012.jpg



Levee slope and shoulder looking upstream waterside levee section.

Photo 2 of 2 : SP_2018_NA0011_143_27_20180307_00013.jpg



Unit 2 Ash Slough Levee mile 0.98 waterside shoulder and slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

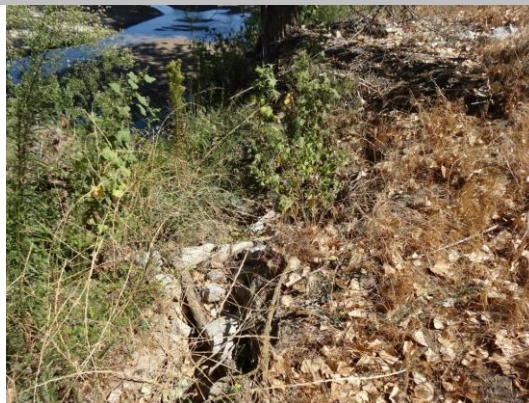
Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.10	Rating **	U	Issue No.	1 (cont)	
LM End	1.19	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.055596 °	37.055596 °	
				-120.412647 °	-120.412647 °	
DWR ID	NA0011U02RM2.57					
Comment Code						
Inspector Comment						
09/20/2017: No significant change observed. 07/22/2016: No significant change observed. 09/08/2015: No significant change observed. 07/22/2014: No significant change observed. 08/30/2013: No significant change observed. 07/31/2012: Site was visited on 07/24/2012. No significant change observed. Dense vegetation around the site 08/09/2011: Site was inspected. No visible change was observed from the previous condition. A fallen tree was seen at the levee toe about 20 feet upstream, and tree root exposed. There has been no report from the district that this site was corrected. 11/30/2010: Site was not inspected due to time constraints. There have been no reports from the district that the site was corrected. Continue to monitor site during flood events. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 2009: Site is recommended as a local maintenance issue, per Critical Levee Repair Office, Critical Erosion Sites Evaluation 2008 Report; site was previously rated "M" 9/6/2007: Undercutting of the toe; several trees along the WS slope with roots exposed. [2017 Site ID:NA0011U02RM2.57]						

LM Start	1.10	Rating **	U	Issue No.	1 (cont)
LM End	1.19	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2018_NA0011_143_1_20180307_00003.jpg



Vegetation debris at the site.

Photo 4 of 4 : SP_2018_NA0011_143_1_20180307_00004.jpg



Close view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.12	Rating **	M	Issue No.	17
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.055541 °	37.055541 °
				-120.412957 °	-120.412957 °
DWR ID	DWR_NA0011_02_f_2017_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim branches from waterside tree hanging low over the crown inhibiting crown access.					

No Photos

LM Start	1.24	Rating **	M	Issue No.	18
LM End	1.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.056226 °	37.056226 °
				-120.411066 °	-120.411066 °
DWR ID	DWR_NA0011_02_f_2017_18				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner removed most of the landscaping expect for cactus at landward toe.					

Photo 1 of 2 : SP_2018_NA0011_143_18_20180307_00010.jpg



Modify or remove existing landscaping to allow visibility and access.

LM Start	1.24	Rating **	M	Issue No.	18 (cont)
LM End	1.24	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_143_18_20180411_00043.jpg



Looking downstream at cactus on landward toe. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.39	Rating **	A/W	Issue No.	42
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.057989 °	37.057989 °
				-120.409581 °	-120.409581 °
DWR ID	DWR_NA0011_02_s _ 2014_42				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the water side levee slope.					

No Photos

LM Start	1.51	Rating **	M	Issue No.	25
LM End	1.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.058652 °	37.058802 °
				-120.407638 °	-120.407350 °
DWR ID	DWR_NA0011_02_s _ 2012_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees on the waterside slope levee miles 1.51-1.52.					

Photo 1 of 1 : SP_2018_NA0011_143_25_20180411_00044.jpg



Look downstream at untrimmed tree on waterward slope. (Spring 2018)

LM Start	1.62	Rating **	M	Issue No.	26
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.059505 °	37.059505 °
				-120.405946 °	-120.405946 °
DWR ID	DWR_NA0011_02_s _ 2018_26				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile on waterward shoulder.Should be burned or removed.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.62	Rating **	M	Issue No.	50
LM End	1.62	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.059585 °	37.059585 °	
			-120.405867 °	-120.405867 °	
DWR ID					

Comment Code					
Inspector Comment					

FS_ID:49978
DS_ID:25457
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Repair in progress--According to LMA representative, Dario Dominguez, owner has repaired levee slope and compacted material per CVFPB's requirement (compaction tests have been performed). Need to confirm compaction tests were provided to DWR Inspector-Herman Phillips. (DWR UCIP - omagana)6/14/2016
Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ILLEGAL ENCROACHMENT* 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. The pipe along the LS toe of U2 starts at 37.059237, -120.406025, and ends at 37.058462, -120.40791. This crossing was field discovered.
FS Date: 7/14/2016

Photo 1 of 3 : UCIP_SP_2018_49978_75220.jpg



Assumed alignment of pipe through the levees and along LS toe of Unit 2. (Source: Google Earth, 3/18/2015)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.62	Rating **	M	Issue No.	50 (cont)
LM End	1.62	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.059585 °	37.059585 °
				-120.405867 °	-120.405867 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49978
DS_ID:25457
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Repair in progress--According to LMA representative, Dario Dominguez, owner has repaired levee slope and compacted material per CVFPB's requirement (compaction tests have been performed). Need to confirm compaction tests were provided to DWR Inspector-Herman Phillips. (DWR UCIP - omagana)6/14/2016
Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ILLEGAL ENCROACHMENT* 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. The pipe along the LS toe of U2 starts at 37.059237, -120.406025, and ends at 37.058462, -120.40791. This crossing was field discovered.
FS Date: 7/14/2016

Photo 2 of 3 : UCIP_SP_2018_49978_75227.jpg



View of cut on LS slope of U2 at LM 1.49 (most downstream end of the open trench, photo 1 of 2).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.62	Rating **	M	Issue No.	50 (cont)
LM End	1.62	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.059585 °	37.059585 °
				-120.405867 °	-120.405867 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49978 DS_ID:25457 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/14/2016 Repair in progress--According to LMA representative, Dario Dominguez, owner has repaired levee slope and compacted material per CVFPB's requirement (compaction tests have been performed). Need to confirm compaction tests were provided to DWR Inspector-Herman Phillips. (DWR UCIP - omagana)6/14/2016 Levee disturbed without prior authorization, it appears that the pipe owner did not notify CVFPB of the construction activity. Crossing was added to UCIP database. Spoke to Herman Phillips (DWR Levee Inspector) regarding unauthorized pipe installation along LS toe of U2. The LS toe of U2 (approximately 731 feet) was disturbed. DWR Inspector mentioned that Dario Dominguez with Madera County Flood Control, LMA representative, has sent the pipe owner notification of unauthorized excavation to replace existing pipe along U2 LS toe, dated May 5, 2016. After reviewing the timed aerial photographs (aerials) under Google Earth a new discovery was made regarding the extend of the area disturbed. Based on the aerials it appears that the new pipe system goes through U1 and U2 levees, across Ash Slough, and along LS toe of U2. The pipe through the levees and channel appears to tie into the work currently being done on the LS toe of U2. Both U1 and U2 levees appear to have been disturbed during 2014-2015. The aerials show that the crossing was not present in the aerial dated 4/5/2014, crossing was not present during the 2014 UCIP Inspection dated 5/6/2014, and the crossing was present in the aerial dated 3/18/2015. According to DWR Inspector, Dario Dominguez with Madera County Flood Control was notified of the additional unauthorized encroachment issue (unauthorized work completed in 2014-2015 on both levees and the channel) that could be related to the trench work being completed by Mr. Sterling. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ILLEGAL ENCROACHMENT* 10-inch to 12-inch irrigation siphon pipe of an unknown material through both levees and across the channel, at an unknown depth. The pipe starts on the landside (LS) toe of Unit 1 (U1) and continues across the channel and through the Unit 2 (U2) levee. The pipe then runs along the LS toe of U2 for approximately 731 feet. The pipe along the LS toe of U2 starts at 37.059237, -120.406025, and ends at 37.058462, -120.40791. This crossing was field discovered. FS Date: 7/14/2016					

Photo 3 of 3 : UCIP_SP_2018_49978_75224.jpg



Close-up view of cut on LS slope at U2 LM 1.49 (the most downstream end of open trench, photo 2 of 2)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.64	Rating **	A/W	Issue No.	20
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.059746 °	37.062980 °
				-120.405716 °	-120.402029 °
DWR ID	DWR_NA0011_02_f_2017_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.66	Rating **	M	Issue No.	38
LM End	2.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.059952 °	37.063718 °
				-120.405448 °	-120.401358 °
DWR ID	DWR_NA0011_02_s_2017_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_143_38_20180307_00017.jpg



Looking upstream from levee mile 1.66-2.00 tall weeds present on the landside slope.

LM Start	2.00	Rating **	U	Issue No.	24
LM End	2.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.063642 °	37.063642 °
				-120.401434 °	-120.401434 °
DWR ID	DWR_NA0011_02_f_2017_24				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning/burn pile may be intermittent issue, but shold be located away from levee toe.					

Photo 1 of 1 : SP_2018_NA0011_143_24_20180307_00011.jpg



Remove prunings pile to allow inspection and access to landside levee slope and toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	2.02	Rating **	M	Issue No.	51
LM End	2.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.063982 °	37.063982 °
				-120.401165 °	-120.401165 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39925
 DS_ID:25045
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: Need to contact owner to determine additional information about crossing and potential appurtenances.
 FIELD_STRUCT_DESC: *ABANDONED* 36-inch pipe of an unknown material or purpose through the levee, at an unknown depth. The pipe is filled with concrete. This crossing was field discovered.
 FS Date: 5/6/2014

LM Start	2.02	Rating **	M	Issue No.	51 (cont)
LM End	2.02	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_39925_71815.jpg



Standpipes visible on waterward side.

Photo 2 of 3 : UCIP_SP_2018_39925_71820.jpg



36-inch pipe full of concrete debris located on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	2.02	Rating **	M	Issue No.	51 (cont)	
LM End	2.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.063982 °	37.063982 °	
				-120.401165 °	-120.401165 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39925						
DS_ID:25045						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Need to contact owner to determine additional information about crossing and potential appurtenances.						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch pipe of an unknown material or purpose through the levee, at an unknown depth. The pipe is filled with concrete. This crossing was field discovered.						
FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_39925_71819.jpg



View of waterward side.

LM Start	2.03	Rating **	M	Issue No.	52
LM End	2.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.064087 °	37.064087 °
				-120.401194 °	-120.401194 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39924 DS_ID:25044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status. FIELD_STRUCT_DESC: 10-inch pipes located on waterside (WS). Unsure if these pipes go through the levee. These pipes were field discovered. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_39924_71809.jpg



Tall concrete standpipe visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ash Slough	Left	2.04	04/03/2018 04/03/2018	Richard Willoughby

LM Start	2.03	Rating **	M	Issue No.	52 (cont)
LM End	2.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.064087 °	37.064087 °
				-120.401194 °	-120.401194 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39924 DS_ID:25044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status. FIELD_STRUCT_DESC: 10-inch pipes located on waterside (WS). Unsure if these pipes go through the levee. These pipes were field discovered. FS Date: 5/6/2014					

Photo 2 of 3 : UCIP_SP_2018_39924_71808.jpg



Concrete standpipes visible on waterward side--dense vegetation on waterward side.

LM Start	2.03	Rating **	M	Issue No.	52 (cont)
LM End	2.03	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_39924_71807.jpg



Inside view of 10-inch concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet
Spring 2018 Levee Inspection Results
Madera County FCWCA**

Waterway			Bank	Unit Miles
Unit No. 03 Berenda Slough			Right	1.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/2/2018 - 4/2/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	3
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996596 °	36.996612 °
				-120.373711 °	-120.346643 °
DWR ID	DWR_NA0011_03_f_2017_3				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

LM Start	0.00	Rating **	U	Issue No.	3 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2018_NA0011_144_3_20180411_00018.jpg



Looking downstream at landward slope. (Spring 2018)

Photo 2 of 2 : SP_2018_NA0011_144_3_20180307_00001.jpg



Manage landside vegetation to allow inspection and access to levee slope and toe.

LM Start	0.00	Rating **	U	Issue No.	9
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996596 °	36.996613 °
				-120.373711 °	-120.346565 °
DWR ID	DWR_NA0011_03_s_2017_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside levee section, spray and mow.					

Photo 1 of 2 : SP_2018_NA0011_144_9_20180411_00019.jpg



Looking downstream at wild growth on waterward slope. (Spring 2018)

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	9 (cont)	
LM End	1.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			36.996596 °		36.996613 °
				-120.373711 °		-120.346565 °
DWR ID	DWR_NA0011_03_s_2017_9					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the wild growth from the waterside levee section, spray and mow.						

Photo 2 of 2 : SP_2018_NA0011_144_9_20180307_00007.jpg



Looking upstream from the waterside shoulder wild growth covering slope and toe.

LM Start	0.00	Rating **	M	Issue No.	46
LM End	0.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996593 °	36.996593 °
				-120.373636 °	-120.373636 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:35767 DS_ID:21516 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm if crossing is still being used. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, at an unknown depth. Slant pump on the waterside (WS) slope. The levee log indicates that the abandonment of the Chowchilla Canal Siphon was backfilled through the levee section. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_35767_64476.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	46 (cont)	
LM End	0.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.996593 °	36.996593 °	
				-120.373636 °	-120.373636 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35767 DS_ID:21516 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to confirm if crossing is still being used. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, at an unknown depth. Slant pump on the waterside (WS) slope. The levee log indicates that the abandonment of the Chowchilla Canal Siphon was backfilled through the levee section. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014						

LM Start	0.00	Rating **	M	Issue No.	46 (cont)
LM End	0.00	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_35767_64475.jpg



Close up of concrete standpipe and multiple positive closure devices.

Photo 3 of 3 : UCIP_SP_2018_35767_64474.jpg



Canal located on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	35
LM End	0.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996618 °	36.996618 °
				-120.373116 °	-120.373116 °
DWR ID	DWR_NA0011_03_f_2012_35				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Tree drags against vehicles as they pass by. Remove overhanging tree limbs.					

No Photos

LM Start	0.04	Rating **	M	Issue No.	45
LM End	0.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.996522 °	36.996522 °
				-120.372980 °	-120.372980 °
DWR ID	DWR_NA0011_03_s_2012_45				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the discarded tree branches from the landside slope.					

No Photos

LM Start	0.05	Rating **	U	Issue No.	12
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.996442 °	36.996613 °
				-120.372907 °	-120.346565 °
DWR ID	DWR_NA0011_03_s_2017_12				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of all vegetation.					

Photo 1 of 1 : SP_2018_NA0011_144_12_20180307_00010.jpg



Looking upstream at the crown roadway that's covered with wild vegetation.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.05	Rating **	M	Issue No.	28
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.996442 °	36.996442 °
				-120.372848 °	-120.372848 °
DWR ID	DWR_NA0011_03_f_2014_28				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree from the landside slope.					

No Photos

LM Start	0.06	Rating **	M	Issue No.	18
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996378 °	36.996378 °
				-120.372738 °	-120.372738 °
DWR ID	DWR_NA0011_03_f_2014_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the tree listed, five feet above the ground on the landside slope.					

No Photos

LM Start	0.08	Rating **	M	Issue No.	32
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.996264 °	36.996613 °
				-120.372350 °	-120.346570 °
DWR ID	DWR_NA0011_03_s_2014_32				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Regrade the crown for proper drainage and add more rock to crown.					

Photo 1 of 1 : SP_2018_NA0011_144_32_20180411_00020.jpg



Looking downstream at levee crown. (Spring 2018)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.08	Rating **	U	Issue No.	20
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.996204 °	36.996201 °
				-120.372352 °	-120.372345 °
DWR ID	DWR_NA0011_03_s_2012_20				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2018_NA0011_144_20_20180411_00021.jpg



Looking at prunings on landward slope. (Spring 2018)

LM Start	0.10	Rating **	M	Issue No.	47
LM End	0.10	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.996177 °	36.996177 °
				-120.371967 °	-120.371967 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:38228 DS_ID:21517 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 7.3 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_38228_69689.jpg



View of waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	47 (cont)	
LM End	0.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.996177 °	36.996177 °	
				-120.371967 °	-120.371967 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38228						
DS_ID:21517						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner to determine status of crossing. Unable to determine if crossing is in use.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 7.3 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/6/2014						

Photo 2 of 3 : UCIP_SP_2018_38228_69687.jpg



Debris screen visible on waterward headwall.

LM Start	0.10	Rating **	M	Issue No.	47 (cont)
LM End	0.10	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_38228_69688.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.40	Rating **	U	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996208 °	36.996607 °
				-120.366550 °	-120.346568 °
DWR ID	DWR_NA0011_03_f_2016_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA should install rodent bait stations placed along the landside slope and or shoulder at levee miles listed. No new photo was taken. Unable to see the ground, observed rodents running across the roadway.					

LM Start	0.40	Rating **	U	Issue No.	6 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

LM Start	0.40	Rating **	U	Issue No.	6 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 1 of 6 : SP_2018_NA0011_144_6_20180411_00023.jpg



Looking at rodent hole with erosion on landward slope. (Spring 2018)

Photo 2 of 6 : SP_2018_NA0011_144_6_20180411_00022.jpg



Looking at typical rodent holes within this section (Spring 2018)

Photo 3 of 6 : SP_2018_NA0011_144_6_20180411_00024.jpg



Looking at rodent hole with erosion on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.40	Rating **	U	Issue No.	6 (cont)	
LM End	1.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.996208 °		36.996607 °
				-120.366550 °		-120.346568 °
DWR ID	DWR_NA0011_03_f_2016_6					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
LMA should install rodent bait stations placed along the landside slope and or shoulder at levee miles listed. No new photo was taken. Unable to see the ground, observed rodents running across the roadway.						

LM Start	0.40	Rating **	U	Issue No.	6 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 4 of 6 : SP_2018_NA0011_144_6_20180307_00005.jpg



Continued rodent activity.

Photo 5 of 6 : SP_2018_NA0011_144_6_20180307_00004.jpg



More active rodents holes and foot traffic seen around holes though no rodents observed.

LM Start	0.40	Rating **	U	Issue No.	6 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 6 of 6 : SP_2018_NA0011_144_6_20180307_00003.jpg



Berenda Slough Unit 3 levee miles 0.40-1.51 landside shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.46	Rating **	U	Issue No.	5
LM End	0.46	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996238 °	36.996238 °
				-120.365563 °	-120.365563 °
DWR ID	DWR_NA0011_03_s_2018_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on crown of levee					

Photo 1 of 1 : SP_2018_NA0011_144_5_20180411_00025.jpg



Looking at rodent hole on levee crown. (Spring 2018)

LM Start	0.71	Rating **	M	Issue No.	7
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996252 °	36.996607 °
				-120.361063 °	-120.346568 °
DWR ID	DWR_NA0011_03_f_2016_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There should be bait stations placed along these levee miles listed to radicate rodents.					

No Photos

LM Start	0.71	Rating **	M	Issue No.	8
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996257 °	36.996607 °
				-120.361025 °	-120.346568 °
DWR ID	DWR_NA0011_03_f_2016_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate rodents from the crown roadway in the area listed. Active rodents observed during inspection at this site.					

Photo 1 of 1 : SP_2018_NA0011_144_8_20180307_00006.jpg



Berenda Slough Unit 3 looking upstream from levee miles 0.71 - to 1.51.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.04	Rating **	U	Issue No.	11
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996613 °	36.996610 °
				-120.355055 °	-120.354995 °
DWR ID	DWR_NA0011_03_s_2012_11				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Take these walnuts off the levee section.					

Photo 1 of 2 : SP_2018_NA0011_144_11_20180307_00008.jpg



Berenda Slough Unit 3 looking upstream from levee mile 1.04-1.05 walnut trees blocking the view of the landside levee section.

LM Start	1.04	Rating **	U	Issue No.	11 (cont)
LM End	1.05	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_144_11_20180307_00009.jpg



levee mile 1.04-1.05 landside slope and shoulder wild walnut tree growth was covered with leaves that blocked the view of the levee section.

LM Start	1.07	Rating **	M	Issue No.	15
LM End	1.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996618 °	36.996633 °
				-120.354538 °	-120.354012 °
DWR ID	DWR_NA0011_03_s_2012_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees on the landside listed, 5.0 foot above the ground to view the slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.09	Rating **	U	Issue No.	14
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996618 °	36.996618 °
				-120.354307 °	-120.354307 °
DWR ID	DWR_NA0011_03_s_2017_14				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Branches hanging over crown are beginning to obstruct access.					

Photo 1 of 1 : SP_2018_NA0011_144_14_20180411_00026.jpg



Looking at untrimmed tree on waterward shoulder. (Spring 2018)

LM Start	1.24	Rating **	M	Issue No.	4
LM End	1.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.996582 °	36.996582 °
				-120.351482 °	-120.351258 °
DWR ID	DWR_NA0011_03_f_2016_4				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the slope instability and damaged shoulder at this location. The cause for this damage is the walnut trees landside encroaching onto the levee crown forcing the traffic to vere around.					

Photo 1 of 1 : SP_2018_NA0011_144_4_20180307_00002.jpg



Berenda Slough looking back upstream waterside at the shoulder and slope levee miles 1.24-1.25.

LM Start	1.24	Rating **	U	Issue No.	17
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.996632 °	36.996600 °
				-120.351463 °	-120.350539 °
DWR ID	DWR_NA0011_03_s_2012_17				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The cluster of walnut trees should be removed from the levee section landward.					

Photo 1 of 2 : SP_2018_NA0011_144_17_20180411_00027.jpg



Looking at cluster of walnut trees on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Berenda Slough	Right	1.51	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.24	Rating **	U	Issue No.	17 (cont)	
LM End	1.29	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			36.996632 °		36.996600 °
				-120.351463 °		-120.350539 °
DWR ID	DWR_NA0011_03_s_2012_17					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
The cluster of walnut trees should be removed from the levee section landward.						

Photo 2 of 2 : SP_2018_NA0011_144_17_20180307_00011.jpg



Looking upstream from landside slope tree has blocked view of the slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Madera County FCWCA

Waterway			Bank	Unit Miles
Unit No. 04 Berenda Slough			Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/2/2018 - 4/2/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.01	Rating **	U	Issue No.	8
LM End	1.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995503 °	36.995580 °
				-120.373417 °	-120.346588 °
DWR ID	DWR_NA0011_04_s_2017_8				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

LM Start	0.01	Rating **	U	Issue No.	8 (cont)
LM End	1.49	Issue Type +	Ma	Location *	CR

Photo 1 of 2 : SP_2018_NA0011_145_8_20180411_00019.jpg



Looking upstream from 0.00 at wild growth on levee crown. (Spring 2018)

Photo 2 of 2 : SP_2018_NA0011_145_8_20180307_00003.jpg



Looking upstream from levee mile 0.01 at the wild vegetation growing on the grown roadway.

LM Start	0.02	Rating **	M	Issue No.	4
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995504 °	36.995580 °
				-120.373234 °	-120.346588 °
DWR ID	DWR_NA0011_04_f_2017_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.02	Rating **	U	Issue No.	5
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995504 °	36.995582 °
				-120.373233 °	-120.346586 °
DWR ID	DWR_NA0011_04_f_2017_5				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_145_5_20180307_00002.jpg



Manage landside vegetation to allow inspection and access to levee slope and toe.

LM Start	0.02	Rating **	U	Issue No.	3
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.995506 °	36.995550 °
				-120.373233 °	-120.355935 °
DWR ID	DWR_NA0011_04_f_2016_3				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The slope in this area has been damaged by farm equipment on the slope.					

Photo 1 of 1 : SP_2018_NA0011_145_3_20180307_00001.jpg



Berenda Slough Unit 4 Looking upstream from levee mile 0.14-0.97.

LM Start	0.06	Rating **	M	Issue No.	20
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995597 °	36.995597 °
				-120.372391 °	-120.372391 °
DWR ID	DWR_NA0011_04_f_2012_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the waterside levee slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.08	Rating **	A/W	Issue No.	25
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995557 °	36.995557 °
				-120.372062 °	-120.372062 °
DWR ID	DWR_NA0011_04_s _ 2013_25				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Remove the dead tree limbs hanging over the levee crown.					

No Photos

LM Start	0.12	Rating **	A/W	Issue No.	26
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995532 °	36.995532 °
				-120.371428 °	-120.371428 °
DWR ID	DWR_NA0011_04_s _ 2013_26				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim the tree branches over roadway 12 foot above ground.					

No Photos

LM Start	0.12	Rating **	U	Issue No.	19
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995547 °	36.995586 °
				-120.371410 °	-120.356589 °
DWR ID	DWR_NA0011_04_s _ 2018_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_145_19_20180411_00020.jpg



Looking at large rodent hole on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.14	Rating **	U	Issue No.	15
LM End	0.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995528 °	36.995528 °
				-120.370922 °	-120.370922 °
DWR ID	DWR_NA0011_04_f_2015_15				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There are many dead trees in the area. This one happened to be blocking the crown roadway. Remove the dead trees from the levee section. Many more are subject to fall and further block access to the levee crown.					

Photo 1 of 1 : SP_2018_NA0011_145_15_20180307_00012.jpg



Berenda Slough looking upstream from the levee mile 0.14.

LM Start	0.28	Rating **	M	Issue No.	21
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995564 °	36.995564 °
				-120.368540 °	-120.368540 °
DWR ID	DWR_NA0011_04_f_2012_21				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the discarded tree and branches from the levee slope.					

No Photos

LM Start	0.42	Rating **	M	Issue No.	9
LM End	1.50	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.995572 °	36.995613 °
				-120.365980 °	-120.346358 °
DWR ID	DWR_NA0011_04_s_2017_9				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.44	Rating **	U	Issue No.	22
LM End	0.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.995560 °	36.995560 °
				-120.365614 °	-120.365614 °
DWR ID	DWR_NA0011_04_s_2018_22				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Someone dug large hole on landward slope next to concrete riser. No visible pipe at the site.					

Photo 1 of 3 : SP_2018_NA0011_145_22_20180411_00022.jpg



Looking west at large hole next concrete riser (no pipe) on landward slope. (Spring 2018)

LM Start	0.44	Rating **	U	Issue No.	22 (cont)
LM End	0.44	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2018_NA0011_145_22_20180411_00023.jpg



Looking upstream at large hole on landward slope. (Spring 2018)

LM Start	0.44	Rating **	U	Issue No.	22 (cont)
LM End	0.44	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2018_NA0011_145_22_20180411_00024.jpg



Looking east at large hole next to riser (no pipe) on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.47	Rating **	U	Issue No.	16
LM End	0.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995603 °	36.995603 °
				-120.364978 °	-120.364978 °
DWR ID	DWR_NA0011_04_s_2014_16				
Comment Code					
TR : Tree or limb					
Inspector Comment					
This dead tree on water ward slope should be removed from levee section. No change. 2017					

Photo 1 of 1 : SP_2018_NA0011_145_16_20180307_00013.jpg



Berenda Slough Unit 4 levee mile 0.47 looking back upstream.

LM Start	0.94	Rating **	M	Issue No.	13
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.995571 °	36.995571 °
				-120.356609 °	-120.356609 °
DWR ID	DWR_NA0011_04_f_2017_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
A proper ramp should be permitted and created to replace vehicle erosion site on landside levee slope. Slope should be repaired.					

Photo 1 of 2 : SP_2018_NA0011_145_13_20180307_00010.jpg



A proper ramp should be permitted and created to replace vehicle erosion site on landside levee slope. Slope should be repaired.

LM Start	0.94	Rating **	M	Issue No.	13 (cont)
LM End	0.94	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_145_13_20180307_00011.jpg



A proper ramp should be permitted and created to replace vehicle erosion site on landside levee slope. Slope should be repaired.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	0.94	Rating **	M	Issue No.	14
LM End	0.94	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995573 °	36.995573 °
				-120.356601 °	-120.356601 °
DWR ID	DWR_NA0011_04_f_2017_14				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree from waterside slope.					

Photo 1 of 1 : SP_2018_NA0011_145_14_20180411_00025.jpg



Looking upstream at fallen tree on waterward slope. (Spring 2018)

LM Start	1.01	Rating **	U	Issue No.	12
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995537 °	36.995537 °
				-120.355261 °	-120.355261 °
DWR ID	DWR_NA0011_04_f_2017_12				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Branches from waterside tree are blocking visibility of waterside slope and crown. Levee crown is nearly impassible.					

Photo 1 of 1 : SP_2018_NA0011_145_12_20180307_00009.jpg



Trim trees to at least 5' above levee slope and 12' above levee crown to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.13	Rating **	A/W	Issue No.	2	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			36.995580 °		°
				-120.353080 °		°
DWR ID	DWR_NA0011_04_f_2017_2					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:28						
Site Designation:12-2						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	1.19	Rating **	U	Issue No.	10
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995566 °	36.995566 °
				-120.352038 °	-120.352038 °
DWR ID	DWR_NA0011_04_f_2017_10				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim branches hanging over crown inhibiting access.					

Photo 1 of 1 : SP_2018_NA0011_145_10_20180411_00026.jpg



Looking upstream at tree on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.36	Rating **	M	Issue No.	18
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995593 °	36.995593 °
				-120.348926 °	-120.348926 °
DWR ID	DWR_NA0011_04_s_2018_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.39	Rating **	M	Issue No.	7
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995576 °	36.995576 °
				-120.348348 °	-120.348348 °
DWR ID	DWR_NA0011_04_f_2017_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.49	Rating **	A/W	Issue No.	6
LM End	1.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.995580 °	36.995580 °
				-120.346589 °	-120.346589 °
DWR ID	DWR_NA0011_04_f_2017_6				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees away from crown and waterside slope and remove branches from crown road.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	11
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995590 °	37.003740 °
				-120.346406 °	-120.336877 °
DWR ID	DWR_NA0011_04_f_2016_11				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents and backfill and compact or grout the burrows in this area listed.					

LM Start	1.50	Rating **	U	Issue No.	11 (cont)
LM End	2.28	Issue Type +	Ma	Location *	LS

Photo 1 of 5 : SP_2018_NA0011_145_11_20180307_00004.jpg



Berenda Slough looking upstream levee mile 0.62 landward.

Photo 2 of 5 : SP_2018_NA0011_145_11_20180307_00005.jpg



Looking upstream at rodent activity on landward slope and toe.

LM Start	1.50	Rating **	U	Issue No.	11 (cont)
LM End	2.28	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : SP_2018_NA0011_145_11_20180307_00006.jpg



Berenda Slough looking downstream levee 0.62 landside slope covered with rodent holes to levee mile 2.09.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	11 (cont)	
LM End	2.28	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.995590 °		37.003740 °
				-120.346406 °		-120.336877 °
DWR ID	DWR_NA0011_04_f_2016_11					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Exterminate the rodents and backfill and compact or grout the burrows in this area listed.						

Photo 4 of 5 : SP_2018_NA0011_145_11_20180307_00007.jpg



Rodent activity at LM 2.27.

LM Start	1.50	Rating **	U	Issue No.	11 (cont)
LM End	2.28	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : SP_2018_NA0011_145_11_20180307_00008.jpg



Rodent activity at LM 1.44.

LM Start	1.50	Rating **	U	Issue No.	30
LM End	2.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995590 °	37.003740 °
				-120.346406 °	-120.336877 °
DWR ID	DWR_NA0011_04_f_2014_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Bait stations are needed in Rodent infested area waterside slope and toe. No new photo.					

Photo 1 of 1 : SP_2018_NA0011_145_30_20180307_00014.jpg



Berenda Slough levee mile 1.63-2.23 looking upstream at waterside slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	60
LM End	1.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.995597 °	36.995597 °
				-120.346418 °	-120.346418 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49977 DS_ID:25469 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2016 New entry added--pipe failure. Sink hole present on LS slope. Concrete headwall collapse visible on LS slope. Pipe buried on both WS and LS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: Gravity drainage pipe of an unknown size or material through the levee, approximately 5 feet below the crown. Concrete headwall on the landside (LS). Corrugated metal pipe (CMP) at the LS toe. Sluice gate on the waterside (WS). This crossing was field discovered. FS Date: 7/14/2016					

Photo 1 of 3 : UCIP_SP_2018_49977_75760.jpg



View of LS slope.

LM Start	1.50	Rating **	U	Issue No.	60 (cont)
LM End	1.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_49977_75761.jpg



Sink hole and concrete headwall damage is visible on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	60 (cont)	
LM End	1.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.995597 °		36.995597 °
				-120.346418 °		-120.346418 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49977 DS_ID:25469 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2016 New entry added--pipe failure. Sink hole present on LS slope. Concrete headwall collapse visible on LS slope. Pipe buried on both WS and LS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: Gravity drainage pipe of an unknown size or material through the levee, approximately 5 feet below the crown. Concrete headwall on the landside (LS). Corrugated metal pipe (CMP) at the LS toe. Sluice gate on the waterside (WS). This crossing was field discovered. FS Date: 7/14/2016						

Photo 3 of 3 : UCIP_SP_2018_49977_75762.jpg



Sink hole located immediately above concrete headwall visible on LS.

LM Start	1.51	Rating **	M	Issue No.	56
LM End	2.28	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.995615 °	37.003441 °
				-120.346296 °	-121.337349 °
DWR ID	DWR_NA0011_04_s_2012_56				
Comment Code					
FE : Fence					
Inspector Comment					
No change 2017.					

Photo 1 of 1 : SP_2018_NA0011_145_56_20180307_00015.jpg



Fence within the 10-foot of levee toe. This encroachment was recorded on 11-01-2012. Photo was taken 4-24-2014.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Berenda Slough	Left	2.28	04/02/2018 04/02/2018	Richard Willoughby

LM Start	1.63	Rating **	M	Issue No.	59
LM End	1.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996573 °	36.997002 °
				-120.344428 °	-120.343977 °
DWR ID	DWR_NA0011_04_s _ 2012_59				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate rodents in this area.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Madera County FCWCA

Waterway			Bank	Unit Miles
Unit No. 05 Fresno River			Right	9.10
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2018 - 4/3/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	7
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.978520 °	36.968168 °
				-120.368567 °	-120.301035 °
DWR ID	DWR_NA0011_05_f_2016_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove all tall dead weeds from the landside slope and shoulder from levee mile 0.00 -4.05.					

Photo 1 of 1 : SP_2018_NA0011_146_7_20180307_00001.jpg



Looking upstream from levee mile 0.00 landside slope unwanted tall weeds block view of levee slope.

LM Start	0.00	Rating **	M	Issue No.	14
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.978520 °	36.968168 °
				-120.368567 °	-120.301035 °
DWR ID	DWR_NA0011_05_f_2016_14				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents along the landside slope and toe throughout the area to levee mile 4.05. Bait stations are needed in infested areas.					

Photo 1 of 1 : SP_2018_NA0011_146_14_20180307_00003.jpg



Rodent activity on landside slope.

LM Start	0.00	Rating **	M	Issue No.	10
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.978545 °	36.968159 °
				-120.368498 °	-120.301065 °
DWR ID	DWR_NA0011_05_f_2017_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	4.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.978548 °	36.968165 °
				-120.368454 °	-120.301151 °
DWR ID	DWR_NA0011_05_s_2012_13				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Regrade the crown for proper drainage. And add appropriate gravel or road base.					

Photo 1 of 1 : SP_2018_NA0011_146_13_20180411_00020.jpg



Looking downstream at levee crown from 0.00. (Spring 2018)

LM Start	0.00	Rating **	U	Issue No.	8
LM End	4.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.978557 °	36.968152 °
				-120.368423 °	-120.301103 °
DWR ID	DWR_NA0011_05_f_2015_8				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
The crown roadway must be free of all vegetation. Tall weeds blocking view of crown roadway.					

Photo 1 of 1 : SP_2018_NA0011_146_8_20180307_00002.jpg



Fresno River looking upstream levee mile 0.00.

LM Start	0.04	Rating **	M	Issue No.	15
LM End	4.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.978504 °	36.968175 °
				-120.367871 °	-120.300996 °
DWR ID	DWR_NA0011_05_f_2017_15				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	36
LM End	0.18	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.978036 °	36.978036 °
				-120.365246 °	-120.365246 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:35795 DS_ID:21520 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_35795_64567.jpg



View of waterward side.

LM Start	0.18	Rating **	M	Issue No.	36 (cont)
LM End	0.18	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_35795_64566.jpg



View of flap gate and concrete headwall located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	36 (cont)	
LM End	0.18	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.978036 °	36.978036 °	
				-120.365246 °	-120.365246 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35795 DS_ID:21520 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_35795_64565.jpg



View of landward side.

LM Start	1.34	Rating **	A/W	Issue No.	4	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			36.967860 °		°
				-120.350030 °		°
DWR ID	DWR_NA0011_05_f_2017_4					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:34						
Site Designation:27-4						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	2.50	Rating **	M	Issue No.	19
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967990 °	36.967990 °
				-120.329131 °	-120.329131 °
DWR ID	DWR_NA0011_05_s_2012_19				
Comment Code					
Inspector Comment					
Trash in channel.					

Photo 1 of 1 : SP_2018_NA0011_146_19_20180411_00021.jpg



Looking west at garage in channel. (Spring 2018)

LM Start	4.17	Rating **	A/W	Issue No.	5	
LM End	4.20	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			36.968250 °		36.968260 °
				-120.298970 °		-120.298310 °
DWR ID	DWR_NA0011_05_f_2017_5					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:30						
Site Designation:27-102						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	4.20	Rating **	M	Issue No.	21
LM End	4.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.968135 °	36.968202 °
				-120.298355 °	-120.296210 °
DWR ID	DWR_NA0011_05_s _ 2012_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Observed rodent burrows but no rodents seen.					

No Photos

LM Start	4.46	Rating **	M	Issue No.	23
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.968230 °	36.968247 °
				-120.293665 °	-120.279957 °
DWR ID	DWR_NA0011_05_s _ 2012_23				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Observed many rodent burrows, no rodent was seen.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	4.76	Rating **	A/W	Issue No.	6	
LM End	4.81	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			36.968310 °		36.968310 °
				-120.288190 °		-120.287260 °
DWR ID	DWR_NA0011_05_f_2017_6					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:29						
Site Designation:27-100						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	5.56	Rating **	M	Issue No.	18
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.968210 °	36.968210 °
				-120.273729 °	-120.273729 °
DWR ID	DWR_NA0011_05_f_2017_18				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair damage from vehicle traffic on slope and shoulder.					

Photo 1 of 1 : SP_2018_NA0011_146_18_20180307_00005.jpg



Repair damage from vehicle traffic on slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	5.73	Rating **	A/W	Issue No.	9	
LM End	5.75	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			36.968270 °	36.968270 °	
				-120.270750 °	-120.270320 °	
DWR ID	DWR_NA0011_05_f_2017_9					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:31						
Site Designation:27-106						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	6.09	Rating **	M	Issue No.	31
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968178 °	36.968178 °
				-120.264122 °	-120.264122 °
DWR ID	DWR_NA0011_05_f_2015_31				
Comment Code					
PR : Prunings					
Inspector Comment					
The pruning's here need to be burned or removed from levee slope waterside.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.57	Rating **	U	Issue No.	17
LM End	9.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.968502 °	36.973318 °
				-120.255603 °	-120.211600 °
DWR ID	DWR_NA0011_05_s_2017_17				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than native grasses.					

Photo 1 of 1 : SP_2018_NA0011_146_17_20180307_00004.jpg



Fresno River waterside looking upstream from levee mile 6.57, wild weed growth present on slope and shoulder.

LM Start	6.58	Rating **	U	Issue No.	20
LM End	7.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.968518 °	36.969543 °
				-120.255408 °	-120.247325 °
DWR ID	DWR_NA0011_05_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild weeds and tall grasses from the landside slope and shoulder.					

Photo 1 of 1 : SP_2018_NA0011_146_20_20180307_00006.jpg



Fresno River Unit 5 levee mile 6.58 looking upstream to 7.04 unsatisfactory weed growth covering levee slope.

LM Start	6.58	Rating **	M	Issue No.	27
LM End	9.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.968525 °	36.973197 °
				-120.255387 °	-120.212085 °
DWR ID	DWR_NA0011_05_f_2016_27				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodent in the area listed and place bait stations.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.63	Rating **	M	Issue No.	22
LM End	7.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.968568 °	36.969552 °
				-120.254542 °	-120.237855 °
DWR ID	DWR_NA0011_05_s_2017_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair rutting and add appropriate gravel.					

No Photos

LM Start	6.75	Rating **	U	Issue No.	28
LM End	6.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.969200 °	36.969507 °
				-120.252462 °	-120.248893 °
DWR ID	DWR_NA0011_05_f_2016_28				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents in the area listed and place bait stations along the shoulder and or slope.					

Photo 1 of 1 : SP_2018_NA0011_146_28_20180307_00009.jpg



Fresno River landside levee slope levee mile 6.75-6.95.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.87	Rating **	M	Issue No.	37
LM End	6.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.969520 °	36.969520 °
				-120.250311 °	-120.250311 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39006					
DS_ID:21527					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Slide gate buried on landward side. Recommend clearing sediment deposit on landward side.					
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_39006_69715.jpg



View of waterward side.

LM Start	6.87	Rating **	M	Issue No.	37 (cont)
LM End	6.87	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39006_69714.jpg



Concrete headwall covered by dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.87	Rating **	M	Issue No.	37 (cont)	
LM End	6.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.969520 °	36.969520 °	
				-120.250311 °	-120.250311 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39006						
DS_ID:21527						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Slide gate buried on landward side. Recommend clearing sediment deposit on landward side.						
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_39006_69713.jpg



View of landward side.

LM Start	7.06	Rating **	A/W	Issue No.	29
LM End	7.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.969517 °	36.969528 °
				-120.246928 °	-120.237790 °
DWR ID	DWR_NA0011_05_f_2016_29				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
The crown roadway should be keep clear of vegetation.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.37	Rating **	M	Issue No.	24
LM End	7.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.969551 °	36.969550 °
				-120.241261 °	-120.238526 °
DWR ID	DWR_NA0011_05_f_2017_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	8.09	Rating **	M	Issue No.	38
LM End	8.09	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.972415 °	36.972415 °
				-120.229285 °	-120.229285 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:38235 DS_ID:21528 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 8.3 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_38235_69719.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.09	Rating **	M	Issue No.	38 (cont)	
LM End	8.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.972415 °		36.972415 °
				-120.229285 °		-120.229285 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:38235 DS_ID:21528 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 8.3 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014						

Photo 2 of 3 : UCIP_SP_2018_38235_69721.jpg



Concrete headwall visible on waterward side and covered by dense vegetation.

LM Start	8.09	Rating **	M	Issue No.	38 (cont)
LM End	8.09	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_38235_69720.jpg



Enter photo 5 description or comment here.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.36	Rating **	U	Issue No.	35
LM End	8.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.972937 °	36.972947 °
				-120.224457 °	-120.223607 °
DWR ID	DWR_NA0011_05_f_2015_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Burn the brush pile off the levee section, this is creating an area for rodents to bore into the levee underneath the brush pile.					

Photo 1 of 1 : SP_2018_NA0011_146_35_20180307_00010.jpg



Fresno River Unit 5 looking upstream from levee mile 8.36-8.41 brush pile on shoulder and slope.

LM Start	8.53	Rating **	M	Issue No.	25
LM End	8.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.972643 °	36.972643 °
				-120.221488 °	-120.221488 °
DWR ID	DWR_NA0011_05_f_2017_25				
Comment Code					
PI : Pipe					
Inspector Comment					
Possible sinkhole 10 feet from landside levee toe. 6 ft long by 1-2 ft wide by 5.5 ft deep. 55gal drum halves were placed in hole for safety. Met with Rick Cosyns (MID 559-232-0227) on site. Speculated that it was likely an underground pipe with collapsed backfill.					

Photo 1 of 2 : SP_2018_NA0011_146_25_20180307_00007.jpg



Possible sinkhole 10 feet from landside levee toe. 6 ft long by 1-2 ft wide by 5.5 ft deep. White 55gal drum halves were placed in hole for safety.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Fresno River	Right	9.10	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.53	Rating **	M	Issue No.	25 (cont)
LM End	8.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.972643 °	36.972643 °
				-120.221488 °	-120.221488 °
DWR ID	DWR_NA0011_05_f_2017_25				
Comment Code					
PI : Pipe					
Inspector Comment					
Possible sinkhole 10 feet from landside levee toe. 6 ft long by 1-2 ft wide by 5.5 ft deep. 55gal drum halves were placed in hole for safety. Met with Rick Cosyns (MID 559-232-0227) on site. Speculated that it was likely an underground pipe with collapsed backfill.					

Photo 2 of 2 : SP_2018_NA0011_146_25_20180307_00008.jpg



Possible sinkhole 10 feet from landside levee toe. 6 ft long by 1-2 ft wide by 5.5 ft deep. White 55gal drum halves were placed in hole for safety.

LM Start	8.53	Rating **	M	Issue No.	26
LM End	8.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.972616 °	36.972606 °
				-120.221415 °	-120.221389 °
DWR ID	DWR_NA0011_05_f_2017_26				
Comment Code					
EQ : Equipment					
Inspector Comment					
Concrete pipes at landward toe.					

Photo 1 of 1 : SP_2018_NA0011_146_26_20180411_00022.jpg



Looking upstream at concrete pipes stored at landward toe. (Spring 2018)

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Madera County FCWCA

Waterway			Bank	Unit Miles
Unit No. 06 Fresno River			Left	9.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2018 - 4/3/2018			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	15
LM End	0.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976937 °	36.968862 °
				-120.367310 °	-120.354232 °
DWR ID	DWR_NA0011_06_f_2017_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_147_15_20180307_00004.jpg



Landside vegetation should be managed to allow inspection and access.

LM Start	0.01	Rating **	M	Issue No.	11
LM End	2.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976937 °	36.967257 °
				-120.367308 °	-120.328151 °
DWR ID	DWR_NA0011_06_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the unwanted tall weed growth from the waterside slope and shoulder.					

Photo 1 of 1 : SP_2018_NA0011_147_11_20180307_00002.jpg



Fresno River levee mile 0.01 looking upstream wild weed growth present on the slope and shoulder.

LM Start	0.01	Rating **	M	Issue No.	19
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.976937 °	36.967393 °
				-120.367308 °	-120.310025 °
DWR ID	DWR_NA0011_06_f_2016_19				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate rodents and backfill burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	12
LM End	1.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976960 °	36.968529 °
				-120.367233 °	-120.354011 °
DWR ID	DWR_NA0011_06_s_2017_12				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : SP_2018_NA0011_147_12_20180307_00003.jpg



Fresno River looking upstream from levee mile 0.01 to 0.95.

LM Start	0.04	Rating **	M	Issue No.	13
LM End	0.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.976964 °	36.969726 °
				-120.366831 °	-120.354565 °
DWR ID	DWR_NA0011_06_f_2017_13				
Comment Code					
FE : Fence					
Inspector Comment					
Barbed wire.					

No Photos

LM Start	0.44	Rating **	U	Issue No.	20
LM End	0.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.975030 °	36.975014 °
				-120.360382 °	-120.360401 °
DWR ID	DWR_NA0011_06_f_2012_20				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
This erosion should be taken care of before it gets worse. During the spring inspection on 4-24-2014 the erosion couldn't be seen as the area was overtaken with weeds.					

Photo 1 of 1 : SP_2018_NA0011_147_20_20180307_00007.jpg



Looking downstream at the old erosion site landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.64	Rating **	A/W	Issue No.	8	
LM End	0.71	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			36.972950 °		36.972240 °
				-120.357890 °		-120.356830 °
DWR ID	DWR_NA0011_06_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:32						
Site Designation:28-4						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	0.93	Rating **	A/W	Issue No.	16
LM End	0.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.969680 °	36.969124 °
				-120.354551 °	-120.354363 °
DWR ID	DWR_NA0011_06_f_2017_16				
Comment Code					
EQ : Equipment					
Inspector Comment					
Bee boxes at toe of levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	1
LM End	1.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967781 °	36.967395 °
				-120.353321 °	-120.352362 °
DWR ID	DWR_NA0011_06_s_2012_1				
Comment Code					
DE : Debris					
Inspector Comment					
Large piles of broken up recycled sheet rock placed within 10-foot of the levee easement.					

Photo 1 of 2 : SP_2018_NA0011_147_1_20180411_00039.jpg



Looking upstream at tanks and sheet rock piles at landward toe. (Spring 2018)

LM Start	1.08	Rating **	U	Issue No.	1 (cont)
LM End	1.14	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_147_1_20180307_00001.jpg



Recycle sheet rock piles within the landside easement.

LM Start	1.14	Rating **	U	Issue No.	39
LM End	1.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967387 °	36.967270 °
				-120.352340 °	-120.351902 °
DWR ID	DWR_NA0011_06_s_2014_39				
Comment Code					
TA : Tank					
Inspector Comment					
Metal storage tanks are within the easement of the landward toe. Move them away from the easement.					

Photo 1 of 1 : SP_2018_NA0011_147_39_20180307_00016.jpg



Fresno River landside levee mile 1.16.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	41
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.967387 °	36.967207 °
				-120.352332 °	-120.351590 °
DWR ID	DWR_NA0011_06_s_2013_41				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the slope damaged by farm equipment.					

No Photos

LM Start	1.15	Rating **	M	Issue No.	18
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.967360 °	36.967393 °
				-120.352243 °	-120.310025 °
DWR ID	DWR_NA0011_06_f_2017_18				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.15	Rating **	U	Issue No.	17
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.967334 °	36.967334 °
				-120.352154 °	-120.352154 °
DWR ID	DWR_NA0011_06_f_2017_17				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Observed slump possibly exacerbated by rodent activity. 20' long x 8' high x 18" deep into levee slope.					

Photo 1 of 2 : SP_2018_NA0011_147_17_20180307_00005.jpg



Observed slump possibly exacerbated by rodent activity. 20' long x 8' high x 18" deep into levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.15	Rating **	U	Issue No.	17 (cont)	
LM End	1.15	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			36.967334 °		36.967334 °
				-120.352154 °		-120.352154 °
DWR ID	DWR_NA0011_06_f_2017_17					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Observed slump possibly exacerbated by rodent activity. 20' long x 8' high x 18" deep into levee slope.						

Photo 2 of 2 : SP_2018_NA0011_147_17_20180307_00006.jpg



Observed slump possibly exacerbated by rodent activity. 20' long x 8' high x 18" deep into levee slope.

LM Start	1.16	Rating **	A/W	Issue No.	9	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			36.967290 °		°
				-120.352020 °		°
DWR ID	DWR_NA0011_06_f_2017_9					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:27						
Site Designation:28-2						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.27	Rating **	M	Issue No.	14
LM End	6.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.967177 °	36.967992 °
				-120.350167 °	-120.254517 °
DWR ID	DWR_NA0011_06_s_2017_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair the crown roadway of ruts and depressions regrade where needed					

No Photos

LM Start	1.29	Rating **	A/W	Issue No.	10	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			36.967150 °		°
				-120.349800 °		°
DWR ID	DWR_NA0011_06_f_2017_10					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:33						
Site Designation:DWR_NA0011_06_R_2012_01						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.98	Rating **	M	Issue No.	21
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.967221 °	36.967252 °
				-120.337208 °	-120.328226 °
DWR ID	DWR_NA0011_06_f_2017_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_147_21_20180307_00008.jpg



Landside vegetation should be managed to allow inspection and access to slope and toe.

LM Start	1.98	Rating **	M	Issue No.	25
LM End	5.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.967222 °	36.967499 °
				-120.337208 °	-120.265336 °
DWR ID	DWR_NA0011_06_s_2017_25				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	2.48	Rating **	M	Issue No.	23
LM End	3.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.967257 °	36.967395 °
				-120.328151 °	-120.309471 °
DWR ID	DWR_NA0011_06_f_2017_23				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	3.39	Rating **	M	Issue No.	24
LM End	3.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967378 °	36.967378 °
				-120.311737 °	-120.311737 °
DWR ID	DWR_NA0011_06_f_2017_24				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove large pipe sections from toe of levee.					

No Photos

LM Start	3.49	Rating **	A/W	Issue No.	28
LM End	7.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.967394 °	36.969598 °
				-120.310027 °	-120.234230 °
DWR ID	DWR_NA0011_06_f_2017_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.49	Rating **	A/W	Issue No.	30
LM End	7.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.967394 °	36.969599 °
				-120.310027 °	-120.234230 °
DWR ID	DWR_NA0011_06_f_2017_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	3.49	Rating **	U	Issue No.	27
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.967393 °	36.967393 °
				-120.310025 °	-120.310025 °
DWR ID	DWR_NA0011_06_f_2017_27				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair damage at toe due to ag equipment activity between power pole and levee.					

Photo 1 of 1 : SP_2018_NA0011_147_27_20180307_00009.jpg



Ag activity has cut into landside toe. Activity should be stopped and levee slope repaired.

LM Start	3.52	Rating **	M	Issue No.	26
LM End	7.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.967394 °	36.968866 °
				-120.309470 °	-120.237293 °
DWR ID	DWR_NA0011_06_f_2017_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.99	Rating **	M	Issue No.	34
LM End	3.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.967457 °	36.967457 °
				-120.301031 °	-120.301031 °
DWR ID	DWR_NA0011_06_f_2017_34				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	5.44	Rating **	U	Issue No.	53
LM End	5.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.967514 °	36.967514 °
				-120.274810 °	-120.274810 °
DWR ID	DWR_NA0011_06_s_2018_53				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Control rodents within this section.					

Photo 1 of 1 : SP_2018_NA0011_147_53_20180411_00040.jpg



Looking at typical rodent hole on landward slope. (Spring 2018)

LM Start	5.50	Rating **	A/W	Issue No.	35
LM End	5.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967509 °	36.967505 °
				-120.273672 °	-120.270605 °
DWR ID	DWR_NA0011_06_f_2017_35				
Comment Code					
DE : Debris					
Inspector Comment					
Remove pistachio/hull piles from levee toe.					

Photo 1 of 1 : SP_2018_NA0011_147_35_20180307_00013.jpg



Piles of pistachio hulls obstruct inspection and access. Should be removed.

LM Start	5.67	Rating **	M	Issue No.	37
LM End	5.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.967504 °	36.967498 °
				-120.270661 °	-120.265336 °
DWR ID	DWR_NA0011_06_f_2017_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair damage at levee toe caused by ag equipment activity.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.07	Rating **	M	Issue No.	38
LM End	6.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967497 °	36.967499 °
				-120.263283 °	-120.263173 °
DWR ID	DWR_NA0011_06_f_2017_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed trees and associated debris pile from levee toe.					

No Photos

LM Start	6.17	Rating **	M	Issue No.	54
LM End	6.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.967568 °	36.967568 °
				-120.261594 °	-120.261594 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39008 DS_ID:21531 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing sediment built up on landward side. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Slide gate on the waterside (WS) shoulder. Headwall and wing wall on each end. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_39008_64570.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.17	Rating **	M	Issue No.	54 (cont)	
LM End	6.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.967568 °	36.967568 °	
				-120.261594 °	-120.261594 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39008						
DS_ID:21531						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend removing sediment built up on landward side.						
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Slide gate on the waterside (WS) shoulder. Headwall and wing wall on each end. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/6/2014						

LM Start	6.17	Rating **	M	Issue No.	54 (cont)
LM End	6.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39008_64573.jpg



Flap gate, concrete headwall, and standpipe on waterward side.

Photo 3 of 3 : UCIP_SP_2018_39008_64572.jpg



Overview of channel at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.51	Rating **	M	Issue No.	55
LM End	6.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.967941 °	36.967941 °
				-120.255467 °	-120.255467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49980 DS_ID:21532 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/14/2016 Same as previous inspection. Need to coordinate with owner. Need permit number authorizing work. (DWR UCIP - omagana)5/06/2014 Need to contact owner. Crossing on landward side appears to be modified--no headwall found on landward end. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 30-inch corrugated metal pipe (CMP) of an unknown purpose through the levee, 12 feet below the crown. Slide gate in a 5-foot CMP riser on the waterside (WS) shoulder. Headwall and wing wall on the WS end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 7/14/2016					

Photo 1 of 3 : UCIP_SP_2018_49980_69722.jpg



View of WS.

LM Start	6.51	Rating **	M	Issue No.	55 (cont)
LM End	6.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_49980_69724.jpg



View of LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.51	Rating **	M	Issue No.	55 (cont)	
LM End	6.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			36.967941 °		36.967941 °
				-120.255467 °		-120.255467 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49980						
DS_ID:21532						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 7/14/2016 Same as previous inspection. Need to coordinate with owner. Need permit number authorizing work. (DWR UCIP - omagana)5/06/2014 Need to contact owner. Crossing on landward side appears to be modified--no headwall found on landward end. (DWR UCIP - omagana)						
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe (CMP) of an unknown purpose through the levee, 12 feet below the crown. Slide gate in a 5-foot CMP riser on the waterside (WS) shoulder. Headwall and wing wall on the WS end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 7/14/2016						

Photo 3 of 3 : UCIP_SP_2018_49980_69723.jpg



Additional structures found on LS.

LM Start	6.72	Rating **	M	Issue No.	40
LM End	6.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968670 °	36.968670 °
				-120.251717 °	-120.251717 °
DWR ID	DWR_NA0011_06_f_2017_40				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove collected wood debris on waterside shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.74	Rating **	M	Issue No.	42
LM End	6.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968710 °	36.968710 °
				-120.251439 °	-120.251439 °
DWR ID	DWR_NA0011_06_f_2017_42				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove collected wood debris from waterside shoulder.					

No Photos

LM Start	6.96	Rating **	M	Issue No.	56	
LM End	6.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.968786 °	36.968786 °	
				-120.247473 °	-120.247473 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35804 DS_ID:21587 EP_NO: 13837 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch reinforced concrete gravity irrigation pipe through the levee, 7.5 feet below the floodplain. The pipe extends to a 27-inch concrete standpipe in the overflow area and through the levee section to a 30-inch standpipe on the landside (LS). Positive closure device with walkway on the waterside (WS). (Plans to install a 20-inch concrete pipe through the levee for irrigation authorized under Permit No. 13837, 1984 - Averill Ranch). FS Date: 5/6/2014						

Photo 1 of 3 : UCIP_SP_2018_35804_64585.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	6.96	Rating **	M	Issue No.	56 (cont)
LM End	6.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.968786 °	36.968786 °
				-120.247473 °	-120.247473 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:35804
DS_ID:21587
EP_NO: 13837
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 12-inch reinforced concrete gravity irrigation pipe through the levee, 7.5 feet below the floodplain. The pipe extends to a 27-inch concrete standpipe in the overflow area and through the levee section to a 30-inch standpipe on the landside (LS). Positive closure device with walkway on the waterside (WS). (Plans to install a 20-inch concrete pipe through the levee for irrigation authorized under Permit No. 13837, 1984 - Averill Ranch).
FS Date: 5/6/2014

LM Start	6.96	Rating **	M	Issue No.	56 (cont)
LM End	6.96	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_35804_64588.jpg



View of concrete standpipe and lid found on waterward shoulder.

Photo 3 of 3 : UCIP_SP_2018_35804_64584.jpg



Inside view of standpipe located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.07	Rating **	M	Issue No.	43
LM End	7.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968801 °	36.968801 °
				-120.245557 °	-120.245557 °
DWR ID	DWR_NA0011_06_f_2017_43				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove collected wood debris from waterside shoulder.					

No Photos

LM Start	7.42	Rating **	M	Issue No.	44
LM End	7.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968851 °	36.968851 °
				-120.239236 °	-120.239236 °
DWR ID	DWR_NA0011_06_f_2017_44				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove collected wood debris from waterside shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	57	
LM End	7.42	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.968853 °	36.968853 °	
				-120.239154 °	-120.239154 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35805						
DS_ID:21588						
EP_NO: 13856						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 12-inch reinforced concrete gravity irrigation pipe through the levee, approximately 4 feet below the crown. The pipe extends from a 24-inch standpipe in the overflow area and through the levee section to a 36-inch standpipe on the landside (LS). Positive closure device with a walkway on the waterside (WS). (Plans to install a 20-inch concrete gravity irrigation pipe through the levee authorized under Permit No. 13856, 1984 - Averill Ranch).						
FS Date: 5/6/2014						

LM Start	7.42	Rating **	M	Issue No.	57 (cont)
LM End	7.42	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_35805_64590.jpg



View of waterward side.

Photo 2 of 3 : UCIP_SP_2018_35805_64589.jpg



Inside view of standpipe located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	57 (cont)	
LM End	7.42	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.968853 °	36.968853 °	
				-120.239154 °	-120.239154 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:35805						
DS_ID:21588						
EP_NO: 13856						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 12-inch reinforced concrete gravity irrigation pipe through the levee, approximately 4 feet below the crown. The pipe extends from a 24-inch standpipe in the overflow area and through the levee section to a 36-inch standpipe on the landside (LS). Positive closure device with a walkway on the waterside (WS). (Plans to install a 20-inch concrete gravity irrigation pipe through the levee authorized under Permit No. 13856, 1984 - Averill Ranch).						
FS Date: 5/6/2014						

Photo 3 of 3 : UCIP_SP_2018_35805_64594.jpg



View of waterward slope.

LM Start	7.47	Rating **	U	Issue No.	45
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968862 °	36.968862 °
				-120.238312 °	-120.238312 °
DWR ID	DWR_NA0011_06_f_2017_45				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_147_45_20180307_00017.jpg



Abandoned vehicle obstructs inspection and access in 10-foot easement at levee toe. Should be removed from 10-foot easement.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.49	Rating **	U	Issue No.	52
LM End	7.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.968886 °	36.968886 °
				-120.237967 °	-120.237967 °
DWR ID	DWR_NA0011_06_s_2018_52				
Comment Code					
PR : Prunings					
Inspector Comment					
Farmer is piling large tree limbs and branches at landward toe.					

Photo 1 of 2 : SP_2018_NA0011_147_52_20180411_00041.jpg



Looking upstream at prunings at landward toe. (Spring 2018)

LM Start	7.49	Rating **	U	Issue No.	52 (cont)
LM End	7.49	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0011_147_52_20180411_00042.jpg



Looking downstream at prunings at landward toe. (Spring 2018)

LM Start	7.57	Rating **	M	Issue No.	46
LM End	9.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.968883 °	36.972656 °
				-120.236491 °	-120.211787 °
DWR ID	DWR_NA0011_06_f_2017_46				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.70	Rating **	M	Issue No.	29
LM End	8.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.969591 °	36.971509 °
				-120.234235 °	-120.220438 °
DWR ID	DWR_NA0011_06_s_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the landside slope.					

Photo 1 of 1 : SP_2018_NA0011_147_29_20180307_00010.jpg



Fresno River landside levee mile 7.71-8.59.

LM Start	7.71	Rating **	U	Issue No.	47
LM End	8.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.969600 °	36.971509 °
				-120.234229 °	-120.220438 °
DWR ID	DWR_NA0011_06_f_2017_47				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0011_147_47_20180307_00018.jpg



Bait traps should be maintained and rodent holes should be backfilled.

LM Start	7.71	Rating **	M	Issue No.	48
LM End	9.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.969600 °	36.972656 °
				-120.234229 °	-120.211787 °
DWR ID	DWR_NA0011_06_f_2017_48				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	7.96	Rating **	M	Issue No.	32
LM End	7.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.971543 °	36.971543 °
				-120.230285 °	-120.230285 °
DWR ID	DWR_NA0011_06_s_2017_32				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the brush pile from the levee slope. This pile is providing habitat for rodents.					

Photo 1 of 1 : SP_2018_NA0011_147_32_20180307_00012.jpg



Fresno River waterside levee mile 7.96.

LM Start	7.98	Rating **	M	Issue No.	33
LM End	7.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.971575 °	36.971575 °
				-120.230065 °	-120.230065 °
DWR ID	DWR_NA0011_06_s_2017_33				
Comment Code					
PR : Prunings					
Inspector Comment					
Burn or remove the brush pile from the waterside slope.					

No Photos

LM Start	8.03	Rating **	M	Issue No.	36
LM End	8.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.971582 °	36.971582 °
				-120.229180 °	-120.229180 °
DWR ID	DWR_NA0011_06_f_2015_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The dead tree has been removed from blocking the roadway but still need to be removed from the levee section.					

Photo 1 of 2 : SP_2018_NA0011_147_36_20180307_00014.jpg



Dead tree pushed upon the waterside slope and blocking the crown.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	36 (cont)	
LM End	8.03	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.971582 °		36.971582 °
				-120.229180 °		-120.229180 °
DWR ID	DWR_NA0011_06_f_2015_36					
Comment Code						
TR : Tree or limb						
Inspector Comment						
The dead tree has been removed from blocking the roadway but still need to be removed from the levee section.						

Photo 2 of 2 : SP_2018_NA0011_147_36_20180307_00015.jpg



Fresno River levee mile 8.03 waterside slope and shoulder.

LM Start	8.09	Rating **	U	Issue No.	31
LM End	8.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.971692 °	36.971692 °
				-120.227957 °	-120.227957 °
DWR ID	DWR_NA0011_06_f_2015_31				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree off the slope and shoulder, this has been reported in the last two inspections.					

Photo 1 of 1 : SP_2018_NA0011_147_31_20180307_00011.jpg



Fresno River levee mile 8.09.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.53	Rating **	M	Issue No.	58
LM End	8.53	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.971462 °	36.971462 °
				-120.220276 °	-120.220276 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:35806 DS_ID:21534 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Rip rap has been added around concrete headwall on waterward side--need to determine details for rip rap around structure. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/6/2014					

Photo 1 of 3 : UCIP_SP_2018_35806_64596.jpg



View of waterward side.

LM Start	8.53	Rating **	M	Issue No.	58 (cont)
LM End	8.53	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_35806_64599.jpg



Rip rap around concrete headwall located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.93	Rating **	U	Issue No.	50
LM End	8.93	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.972286 °	36.972286 °
				-120.213284 °	-120.213284 °
DWR ID	DWR_NA0011_06_f_2017_50				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove or burn prunings pile on crown.					

Photo 1 of 2 : SP_2018_NA0011_147_50_20180411_00043.jpg



Looking upstream at pruning pile on waterward shoulder and crown.
(Spring 2018)

LM Start	8.93	Rating **	U	Issue No.	50 (cont)
LM End	8.93	Issue Type +	En	Location *	CR

Photo 2 of 2 : SP_2018_NA0011_147_50_20180307_00020.jpg



Prunings pile should be removed from levee crown, slope and toe to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.94	Rating **	U	Issue No.	59
LM End	8.94	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			36.972307 °	36.972307 °
				-120.213185 °	-120.213185 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49981
DS_ID:21530
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/14/2016 Surface erosion still present on LS shoulder. Unable to determine if surface erosion is due to internal pipe failure. Unable to locate concrete headwall on WS toe. Need to coordinate with owner to address erosion or potential pipe failure. Also recommend removing dense vegetation on WS. (DWR UCIP - omagana)5/06/2014 Need to contact owner. Surface erosion on landward slope unable to determine if pipe failed or if rodent activity burrow hole has caused collapse on slope. Need to determine cause for erosion. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 7/14/2016

LM Start	8.94	Rating **	U	Issue No.	59 (cont)
LM End	8.94	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_49981_64605.jpg



View of WS.

Photo 2 of 3 : UCIP_SP_2018_49981_64604.jpg



Flap gate visible on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.94	Rating **	U	Issue No.	59 (cont)	
LM End	8.94	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			36.972307 °	36.972307 °	
				-120.213185 °	-120.213185 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49981 DS_ID:21530 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2016 Surface erosion still present on LS shoulder. Unable to determine if surface erosion is due to internal pipe failure. Unable to locate concrete headwall on WS toe. Need to coordinate with owner to address erosion or potential pipe failure. Also recommend removing dense vegetation on WS. (DWR UCIP - omagana)5/06/2014 Need to contact owner. Surface erosion on landward slope unable to determine if pipe failed or if rodent activity burrow hole has caused collapse on slope. Need to determine cause for erosion. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Headwall and wing wall on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 7/14/2016						

Photo 3 of 3 : UCIP_SP_2018_49981_64603.jpg



View of LS.

LM Start	8.99	Rating **	U	Issue No.	51
LM End	8.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.972526 °	36.972526 °
				-120.212226 °	-120.212226 °
DWR ID	DWR_NA0011_06_s_2018_51				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on landward slope.					

Photo 1 of 1 : SP_2018_NA0011_147_51_20180411_00045.jpg



Looking at typical rodent holes on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Madera County FCWCA

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 Fresno River	Left	9.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	8.99	Rating **	U	Issue No.	22
LM End	8.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.972527 °	36.972527 °
				-120.212225 °	-120.212225 °
DWR ID	DWR_NA0011_06_s_2018_22				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Large finger erosion on landward slope					

Photo 1 of 1 : SP_2018_NA0011_147_22_20180411_00046.jpg



Looking at finger erosion on landward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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